

**Amendments to the Claims:**

The following listing of claims will replace all prior versions, and listings, of claims in the application:

1-4. (Canceled)

5. (Currently Amended) A fuel cell comprising:

an electrolyte layer comprising:

a compact substrate having hydrogen-permeability;

a porous layer having pores, wherein the porous layer is inorganic and comprises a thin film, porous body that is directly formed on the substrate; and

an inorganic electrolyte having proton-conductivity and supported in the pores, wherein the electrolyte includes a solid acidacid; and

an electrode disposed adjacent to the porous layer, on the side opposite the substrate.

6. (Previously Presented) A method of manufacturing a fuel cell, the method comprising:

manufacturing an electrolyte layer by:

preparing a compact substrate having hydrogen-permeability;

forming, directly on the substrate, a porous layer having pores, wherein the porous layer is inorganic and comprises a thin film, porous body; and

supporting an inorganic electrolyte having proton-conductivity in the pores, including:

introducing a solution of a solid acid into the pores of the porous layer, and

drying the porous layer containing the solution, and

disposing an electrode adjacent to the porous layer, on the side opposite the substrate.

7-8. (Canceled)

9. (Previously Presented) The fuel cell according to claim 5, wherein the hydrogen permeable layer further comprises palladium.

10. (Previously Presented) The method of manufacturing a fuel cell according to claim 6, wherein the hydrogen permeable layer further comprises palladium.

11. (Canceled)